

Corner Protection To Reduce Wrap Around

Chia-Shun Hsiao

5

Dong Jun Kim

ABSTRACT OF THE DISCLOSURE

10 A method and structure are provided with reduced gate
wrap around to advantageously control for threshold voltage
and increase stability in semiconductor devices. A spacer
is provided aligned to field dielectric layers to protect
the dielectric layers during subsequent etch processes. The
15 spacer is then removed prior to subsequently forming a part
of a gate oxide layer and a gate conductor layer.
Advantageously, the spacer protects the corner area o the
field dielectric and also allows for enhanced thickness of
the gate oxide near the corners.